

Scientific & Technical Information Center

Search Report

EIC 2800

STIC Database Tracking Number: 27446

To: JOSE DEES
Location: JEF-8D59
Art Unit: 2800
Friday, September 05, 2008
Patent Number: 5995221

From: DIANE JACKSON
Location: EIC2800
JEF-4B68
Phone: (571)272-3260

diane.jackson@uspto.gov

Search Notes

Attached are litigation search results in Lexis Nexis, and CourtLink and Questel-Orbit.

No Litigation was found for Patent Number 5995221.

If you have any questions, please feel free to contact me.

Thanks,

Diane

SEP 5 2008

271466

Jackson, Diane

From: Dees, Jose
Sent: Friday, September 05, 2008 3:01 PM
To: STIC-EIC2800
Subject: Reissue 09/998,002

Please do a litigation search for the patent 5,995,221.

Thanks, J Dees

Jose' G. Dees
Jose' G. Dees
T-QAS, TC 2800
571-272-1569

Selected file: PLUSPAT

PLUSPAT - (c) Questel , All Rights Reserved.
RELOADED 02/2008 Comprehensive Worldwide Patents database
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Coverage: 78 patenting authorities; start dates vary from 1800 forward
Abstracts/Titles in English , French & German. Increased
standardization
of Assignee/Inventor names. Added cited ref's BE , CH , NL , TR , AU ,
& JPB
For PlusPat Fact Sheet , Pricing and FAQ , see the Questel website
Last update of file: 2008/09/05 (YYYY/MM/DD) 2008-36/UP (last update)

Search statement 1

nbr /pn us5995221

PLUSPAT1 US5995218	1
PLUSPAT2 US5995219	1
PLUSPAT3 US599522	1
PLUSPAT4 US5995220	1
PLUSPAT5 US5995221	1
PLUSPAT6 US5995222	1
PLUSPAT7 US5995223	1
PLUSPAT8 US5995224	1
PLUSPAT9 US5995225	1
PLUSPAT10US5995226	1
PLUSPAT11US5995227	1
PLUSPAT12US5995228	1
PLUSPAT13US5995229	1
PLUSPAT14US599523	1
PLUSPAT15US5995230	1

Some: numbers / Continue: Y / None: N

Search 1 - 5 - 1

** SS 1: Results 1

Continue: Y / N

prt full legalall max

[Select All](#) | [Unselect All](#)

US5995221 (A) Modified concentric spectrograph
PN US5995221 A 19991130 [US5995221]
TI (A) Modified concentric spectrograph
PA (A) INSTR S A INC (US)
PA0 Instruments S.A., Inc., Edison NJ [US]
IN (A) SLUTTER WARREN S (US); JIANG WU (US); THEVENON ALAIN
F R (FR); MILLET VIVIANE D (FR); GOLDSTONE JEREMY J (US)
AP US88441797 19970627 [1997US-0884417]
FD Rel. Prov. 60/039,207 19970228 [1997US-P039207]
PR US88441797 19970627 [1997US-0884417]
US3920797P 19970228 [1997US-P039207]
IC (A) G01J-003/28
G01J-003/02 [2006-01 A - I R M EP]
G01J-003/18 [2006-01 A - I R M EP]
ICAA G02B-005/18 [2006-01 A L I R M JP]
G02B-013/00 [2006-01 A L I R M JP]
G01J-003/00 [2006 C - I R M EP]
ICCA G01J-003/12 [2006 C - I R M EP]
G02B-005/18 [2006 C L I R M JP]
G02B-013/00 [2006 C L I R M JP]
EC G01J-003/02
G01J-003/18
PCL ORIGINAL (O) : 356326000
DT Corresponding document
US2594334 [US2594334]
-US2835167 [US2835167]
-US2975669 [US2975669]
-US3490848 [US3490848]
-US3909134 [US3909134]
-US3930728 [US3930728]
-US3985443 [US3985443]
-US4027975 [US4027975]
-US4087183 [US4087183]
CT -US4241999 [US4241999]
-US4300835 [US4300835]
-US4312569 [US4312569]
-US4455088 [US4455088]
-US4575242 [US4575242]
-US4618260 [US4618260]
-US5066127 [US5066127]
-FR2653879 [FR2653879]
-JP57-49822 [JP57049822]
-JP62-49308 [JP62049308]

J. Thomas Brownrigg, "Design and performance of a miniature dual-beam diode-array spectrometer," Spectroscopy, vol. 10, Iss. 9 (Nov.-Dec., 1995), pp. 39-44.

- L. Mertz, Concentric Spectrographs, "Applied Optics," vol. 16, No. 12 (Dec. 1977), pp. 3122-3124.

STG (A) United States patent

A modified concentric spectrograph for diffracting light with high stray light rejection without astigmatism is provided. The modified spectrograph includes a grating, a lens, and at least one entrance port and one exit port. The grating has a concave surface and a meridian plane with a first side and a second side. The lens has a substantially planar surface and a convex surface. Preferably, the convex and concave surfaces are substantially concentric. The ports are substantially located on different sides of the meridian plane near a focal plane of the spectrograph. The position of a focal plane may be modified using an optically transmissive triangular prism with a reflective surface, and an optically transmissive block. The position of a focal plane may further be modified with one or more optically transmissive plates. Methods for using the spectrograph are also provided.

AB

1 / 1 LGST - Legal 
Status - ©EPO

US5995221 20001128 US/CCA [COR]CERTIFICATE OF CORRECTION

PN US5995221 A 19991130 [US5995221](A) Patent

AP US88441797 19970627 [1997US-0884417]
19970627 US-API [POS; EXM]

FILING DETAILS

PUB US88441797 19970627 [1997US-0884417]
19991130 US-A [POS; EXM]
Patent
US5995221 A 19991130 [US5995221]
20001128 US/CC-A [COR]
CERTIFICATE OF CORRECTION

20010423 US/AS-A [NMC]

ACT ASSIGNMENT

OWNER: JOBIN YVON, INC. 3880 PARK AVENUE EDISON NEW JERSEY; EFFECTIVE DATE: 19991110
CHANGE OF NAME;ASSIGNOR:INSTRUMENTS S.A., INC.;REEL/FRAME:011731/0529

20010423 US/AS-A [NMC]

ASSIGNMENT

OWNER: JOBIN YVON, INC. 3880 PARK AVENUE EDISON, NEW

JERSEY; EFFECTIVE DATE: 19991110

CHANGE OF NAME;ASSIGNOR:INSTRUMENTS S.A., INC.

/AR;REEL/FRAME:011731/0529

20020702 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011130

20041028 US/AS-A [NMC]

ASSIGNMENT

OWNER: HORIBA JOBIN YVON INC. 3880 PARK AVENUE EDISON,

NEW; EFFECTIVE DATE: 20040916

CHANGE OF NAME;ASSIGNOR:JOBIN YVON INC.

/AR;REEL/FRAME:015312/0359

LEG NMC

Alive

UP 2006-04

1 / 1 CRXX - US Claims
Reassignments - ©CLAIMS/RRX

US5995221 20010423 REASSIGNED CHANGE OF NAME Assignor:
INSTRUMENTS S.A., INC. DATE SIGNED...

AN 3247224

PN 5,995,221 A 19991130 [US5995221]

PA Instruments S A Inc

PT E (Electrical)

20010423 REASSIGNED

CHANGE OF NAME

Assignor: INSTRUMENTS S.A., INC. DATE SIGNED: 11/10/1999

ACT Assignee: JOBIN YVON, INC. 3880 PARK AVENUE EDISON NEW
JERSEY 08820

Reel 011731/Frame 0529

Contact: FISH & NEAVE JEFFREY H. INGERMAN, ESQ. 1251 AVENUE

OF THE AMERICAS NEW YORK, NY 10020

20011130 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020702
REISSUE REQUEST NUMBER: 09/998002
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2876

Reissue Patent Number:

20041028 REASSIGNED
CHANGE OF NAME

Assignor: JOBIN YVON INC., DATE SIGNED: 09/16/2004

Assignee: HORIBA JOBIN YVON INC., 3880 PARK AVENUE, EDISON,
NEW JERSEY, 08820

Reel 015312/Frame 0359

Contact: ANTHONY HANDAL, KIRKPATRICK & LOCKHART, 599
LEXINGTON AVENUE, NEW YORK, NY 10022

UP 2000-48
UACT 2002-07-02
URAS 2004-11-02

Search statement 2
Selected file: FAMPAT

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RELOADED 02/2008 Searchable bibliographic & abstracts-all family
members
Search & display options for both FamPat & extended family definition
Coverage: 78 patenting authorities; start dates vary from 1800 forward
Abstracts/Titles in English , French & German. Increased
standardization
of Assignee/Inventor names. Added cited ref's BE , CH , NL , TR , AU ,
& JPB
For more details , see the FamPat Fact Sheet and Questel website
Last update of file: 2008/08/29 (YYYY/MM/DD) 2008-35/UP (last update)

Search statement 1

nbr /pn us5995221

FAMPAT1	US5995218	1
FAMPAT2	US5995219	1
FAMPAT3	US599522	1
FAMPAT4	US5995220	1
FAMPAT5	US5995221	1
FAMPAT6	US5995222	1
FAMPAT7	US5995223	1
FAMPAT8	US5995224	1
FAMPAT9	US5995225	1
FAMPAT10	US5995226	1
FAMPAT11	US5995227	1
FAMPAT12	US5995228	1
FAMPAT13	US5995229	1
FAMPAT14	US599523	1
FAMPAT15	US5995230	1

Some: numbers / Continue: Y / None: N

Search 1 - 5 - 1

** SS 1: Results 1

Continue: Y / N

prt full legalall max

[Select All](#) | [Unselect All](#)

1 / 1 FAMPAT - Patent 
Families - ©Questel

EP-862050 Modified concentric spectrograph

FAN 20042790133990

EP0862050 A2 19980902 [EP-862050]

JP10293062 A 19981104 [JP10293062]

PN US5995221 A 19991130 [US5995221]

EP0862050 A3 20000412 [EP-862050]

JP3450699 B2 20030929 [JP3450699]

TI Modified concentric spectrograph

PA INSTR S A INC

INSTR SA INC

PA0 Instruments S.A., Inc.; 3880 Park Avenue; Edison, New Jersey 08820 (US)

IN SLUTTER WARREN S; MILLET VIVIANE D; JIANG WU;

GOLDSTONE JEREMY J; THEVENON ALAIN F R

1997US-0884417 19970627

AP 1998EP-0301487 19980227

1998JP-0048359 19980227

(US5995221)

FD Rel. Prov. 60/039,207 19970228 [1997US-P039207]

PR 1997US-0884417 19970627

1997US-P039207 19970228

G01J-003/00

G01J-003/02

G01J-003/12

IC G01J-003/18

G01J-003/28

G02B-005/18

G02B-013/00

G01J-003/02 [2006-01 A - I R M EP]

ICAA G01J-003/18 [2006-01 A - I R M EP]

G02B-005/18 [2006-01 A L I R M JP]

G02B-013/00 [2006-01 A L I R M JP]

G01J-003/00 [2006 C - I R M EP]

ICCA G01J-003/12 [2006 C - I R M EP]

G02B-005/18 [2006 C L I R M JP]

G02B-013/00 [2006 C L I R M JP]

EC G01J-003/02

G01J-003/18

PCL ORIGINAL (O) : 356326000

FI G01J3/18; G02B5/18; G02B13/00

2G020 BA20; 2G020 CB02; 2G020 CC05; 2G020 CC06; 2G020 CC41;

FTM 2G020 CC51; 2H049 AA08; 2H049 AA58; 2H049 AA64; 2H087 KA12;

2H087 LA26; 2H087 RA46; 2H249 AA08; 2H249 AA58; 2H249 AA64

(EP-862050)

DS AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

(EP-862050)

Cited in the search report

-WO9002928(A1)(Cat. A)[WO9002928]

-FR2653879(A)(Cat. A)[FR2653879]

-US5066127(A)(Cat. A)[US5066127]

CT -US4068954(A)(Cat. A)[US4068954]

-US4455088(A)(Cat. A)[US4455088]

-US4850706(A)(Cat. A)[US4850706]

-L.MERTZ: "Concentric Spectrographs" APPLIED OPTICS, vol. 16, no. 12, December 1977 (1977-12), pages 3122-3124, XP000861770 Optical Society of America, Washington, US(Cat. A)[XP000861770]

- (US5995221)
US2594334 [US2594334]
-US2835167 [US2835167]
-US2975669 [US2975669]
-US3490848 [US3490848]
-US3909134 [US3909134]
-US3930728 [US3930728]
-US3985443 [US3985443]
-US4027975 [US4027975]
-US4087183 [US4087183]
-US4241999 [US4241999]
-US4300835 [US4300835]
- CT -US4312569 [US4312569]
-US4455088 [US4455088]
-US4575242 [US4575242]
-US4618260 [US4618260]
-US5066127 [US5066127]
-FR2653879 [FR2653879]
-JP57-49822 [JP57049822]
-JP62-49308 [JP62049308]

J. Thomas Brownrigg, "Design and performance of a miniature dual-beam diode-array spectrometer," Spectroscopy, vol. 10, Iss. 9 (Nov.-Dec., 1995), pp. 39-44.
- L. Mertz, Concentric Spectrographs,"Applied Optics," vol. 16, No. 12 (Dec. 1977), pp. 3122-3124.
(JP10293062)
(A)
[19] Citation as reason for refusal of an application
CT - US (B) 004850706 [US4850706]
- US (B) 004455088 [US4455088]
- US (B) 004068954 [US4068954]
- US (B) 005066127 [US5066127]
- WO (A) 090002928 [WO9002928]
(EP-862050)

A modified concentric spectrograph for diffracting light with high stray light rejection without astigmatism is provided. The modified spectrograph includes a grating, a lens, and at least one entrance port and one exit port. The grating has a concave surface and a meridian plane with a first side and a second side. The lens has a substantially planar surface and a convex surface. Preferably, the convex and concave surfaces are substantially concentric. The ports are substantially located on different sides of the meridian plane near a focal plane of the spectrograph. The position of a focal plane may be modified using an optically transmissive triangular prism with a reflective surface, and an optically transmissive block. The position of a focal plane may further be modified with one or more optically transmissive plates. Methods for using the spectrograph are also provided. <IMAGE>

(EP-862050)
A modified concentric spectrograph for diffracting light with high stray light rejection without astigmatism is provided.
This invention relates to diffraction-grating spectrographs.
More particularly, this invention relates to concentric diffraction-grating spectrographs with modified arrangements of their optical components.
OBJ Another aim is to provide a modified concentric spectrograph that can be used to simultaneously disperse light from one or more polychromatic light sources.
A further aim is to provide a modified concentric spectrograph which is compact, relatively inexpensive to manufacture, and relatively immune to miscalibration.
(EP-862050)
Therefore, it would be desirable to provide a high throughput concentric spectrograph, which also has high stray light rejection without the use of filters.
An advantage of this modified arrangement is that negative second order light that is reflectively diffracted twice is not directed toward the lens and focused at the exit port.
Large intensities are desirable because it provides more light for subsequent detection.
ADB Some of that light is directed toward the exit port, which appears as a faint undesirable spectrum that overlaps with the desired spectrum, a phenomenon called spectral overlap.
This arrangement, however, has the important disadvantage of contaminating the desired spectrum at the exit port with stray light due to internal reflections of other spectra.
However, this arrangement, as described more fully below, has the important disadvantage of contaminating desirable diffracted light with stray light at exit port 110.
(EP-862050)
1. A modified concentric spectrograph comprising:
a grating having an optical axis, a meridian plane, and a concave surface,
said meridian plane having a first side and a second side;
a lens having a substantially planar surface, a convex surface, and an optical axis, wherein said convex surface faces said concave surface, said optical axes being substantially coaxial;
ICLM a primary entrance port being located substantially out of said meridian plane toward said first side; and
a primary exit port being located substantially out of said meridian plane toward said second side.
UP 2000-08

US5995221 20001128 US/CCA [COR]CERTIFICATE OF CORRECTION

PN US5995221 A 19991130 [US5995221](A) Patent

AP US88441797 19970627 [1997US-0884417]

19970627 US-API [POS; EXM]

FILING DETAILS

PUB US88441797 19970627 [1997US-0884417]

19991130 US-A [POS; EXM]

Patent

US5995221 A 19991130 [US5995221]

20001128 US/CC-A [COR]

CERTIFICATE OF CORRECTION

20010423 US/AS-A [NMC]

ASSIGNMENT

OWNER: JOBIN YVON, INC. 3880 PARK AVENUE EDISON NEW JERSEY; EFFECTIVE DATE: 19991110

CHANGE OF NAME;ASSIGNOR:INSTRUMENTS S.A., INC.;REEL/FRAME:011731/0529

20010423 US/AS-A [NMC]

ASSIGNMENT

OWNER: JOBIN YVON, INC. 3880 PARK AVENUE EDISON, NEW

ACT JERSEY; EFFECTIVE DATE: 19991110

CHANGE OF NAME;ASSIGNOR:INSTRUMENTS S.A., INC.

/AR;REEL/FRAME:011731/0529

20020702 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011130

20041028 US/AS-A [NMC]

ASSIGNMENT

OWNER: HORIBA JOBIN YVON INC. 3880 PARK AVENUE EDISON, NEW; EFFECTIVE DATE: 20040916

CHANGE OF NAME;ASSIGNOR:JOBIN YVON INC.

/AR;REEL/FRAME:015312/0359

NMC

LEG Alive

UP 2006-04

2 / 2 LGST - Legal 
Status - ©EPO

EP-862050 19980902 EP/AKA [POS; ADM]DESIGNATED CONTRACTING
STATES:BENANNTE VERTRAGSST...

PN EP0862050 A2 19980902 [EP-862050](A2) Application published without search report
EP0862050 A3 20000412 [EP-862050](A3) Search report

AP EP98301487 19980227 [1998EP-0301487]
19980227 EP-API [POS; EXM]

FILING DETAILS

EP98301487 19980227 [1998EP-0301487]
19980902 EP-A2 [POS; EXM]

PUB Application published without search report

EP0862050 A2 19980902 [EP-862050]
20000412 EP-A3 [POS; EXM]

Search report

EP0862050 A3 20000412 [EP-862050]
19980902 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES:

BENANNTE VERTRAGSSTAATEN

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

19980902 EP/AX-A [POS; ADM]
EXTENSION OF THE EUROPEAN PATENT TO
ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF
AL;LT;LV;MK;RO;SI

20000412 EP/AK-A [POS; ADM]
DESIGNATED CONTRACTING STATES:
BENANNTE VERTRAGSSTAATEN
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

ACT

20000412 EP/AX-A [POS; ADM]
EXTENSION OF THE EUROPEAN PATENT TO
ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF
AL;LT;LV;MK;RO;SI

20001220 EP/AKX-A [POS; ADM; PIF]
PAYMENT OF DESIGNATION FEES
ZAHLUNG VON BENENNUNGSGEBÜEHREN

20010125 EP/REG-A; DE/8566 [NEG; RLW]
REFERENCE TO A NATIONAL CODE
DE: DESIGNATED COUNTRY DE NOT LONGER VALID
Corresponding cc: DE

20010711 EP/18D-A [NEG; NIF]
DEEMED TO BE WITHDRAWN
ALS ZURUECKGENOMMEN GELTEN
EFFECTIVE DATE: 20001013

LEG NIF
Dead
UP 2003-22

1 / 1 CRXX - US Claims
Reassignments - ©CLAIMS/RRX

US5995221 20010423 REASSIGNEDCHANGE OF NAMEAssignor:
INSTRUMENTS S.A., INC. DATE SIGNE...

AN 3247224
PN 5,995,221 A 19991130 [US5995221]
PA Instruments S A Inc
PT E (Electrical)
20010423 REASSIGNED
CHANGE OF NAME

Assignor: INSTRUMENTS S.A., INC. DATE SIGNED: 11/10/1999

Assignee: JOBIN YVON, INC. 3880 PARK AVENUE EDISON NEW
JERSEY 08820

Reel 011731/Frame 0529

Contact: FISH & NEAVE JEFFREY H. INGERMAN, ESQ. 1251 AVENUE
OF THE AMERICAS NEW YORK, NY 10020
ACT

20011130 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020702
REISSUE REQUEST NUMBER: 09/998002
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2876

Reissue Patent Number:

20041028 REASSIGNED
CHANGE OF NAME

Assignor: JOBIN YVON INC., DATE SIGNED: 09/16/2004

Assignee: HORIBA JOBIN YVON INC., 3880 PARK AVENUE, EDISON,
NEW JERSEY, 08820

Reel 015312/Frame 0359

Contact: ANTHONY HANDAL, KIRKPATRICK & LOCKHART, 599
LEXINGTON AVENUE, NEW YORK, NY 10022

UP 2000-48
UACT 2002-07-02
URAS 2004-11-02

Search statement 2

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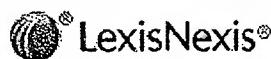
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Patent Search 5995221 9/5/2008

No cases found.

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Source: Combined Source Set 10 - Utility, Design and Plant Patents

Terms: patno=5995221 ([Edit Search](#) | [Suggest Terms for My Search](#))

884417 (08) 5995221 November 30, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5995221

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November 30, 1999

Modified concentric spectrograph

REISSUE: November 30, 2001 - Reissue Application filed Ex. Gp.: 2876; Re. S.N. 09/998,002 (O.G. July 2, 2002)**INVENTOR:** Slutter, Warren S. - Lebanon, New Jersey, United States (US); Jiang, Wu - South Plainfield, New Jersey, United States (US); Thevenon, Alain F. R. - Bretigny sur Orge, France (FR); Millet, Viviane D. - Linas, France (FR); Goldstone, Jeremy J. - Piscataway, New Jersey, United States (US)**CERT-CORRECTION:** November 28, 2000 - a Certificate of Correction was issued for this patent (O.G. November 28, 2000)**APPL-NO:** 884417 (08)**FILED-DATE:** June 27, 1997**GRANTED-DATE:** November 30, 1999**ASSIGNEE-PRE-ISSUE:** January 13, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., INSTRUMENTS S.A., INC. 3880 PARK AVENUEEDISON, NEW JERSEY, 08820, Reel and Frame Number: 008944/0298**ASSIGNEE-AT-ISSUE:** Instruments S.A., Inc., Edison, New Jersey, United States (US), United States company or corporation (02)**ASSIGNEE-AFTER-ISSUE:** April 23, 2001 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., JOBIN YVON, INC. 3880 PARK AVENUEEDISON, NEW JERSEY, 08820, Reel and Frame Number: 011731/0529 October 28, 2004 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS)., HORIBA JOBIN YVON INC. 3880 PARK AVENUEEDISON, NEW JERSEY, 08820, Reel and Frame Number: 015312/0359**LEGAL-REP:** Fish & Neave; Ingerman, Jeffrey H.; Alten, Brett G.**PUB-TYPE:** November 30, 1999 - Utility Patent having no previously published pre-grant publication (A)**PUB-COUNTRY:** United States (US)**US-MAIN-CL:** 356#326**CL:** 356

Combined Source Set 14 - Intellectual Property Cases, Administrative Decisions & Regulations; Federal Register and CFR - Titles 19 and 37; Federal Register Documents Relating To Patent Issues; U.S. Patent & Trademark Office Decisions, Combined; Intellectual Property Law Review Articles, Combined; Patent, Trademark & Copyright Periodicals, Combined; Intellectual Property Law, Combined

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(5995221 or 5,995,221)

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Add

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No Documents Found

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"(5995221 or 5,995,221)"

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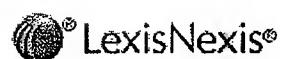
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 - Use a less restrictive date range.
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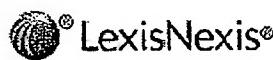
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